ROTOR BALANCER

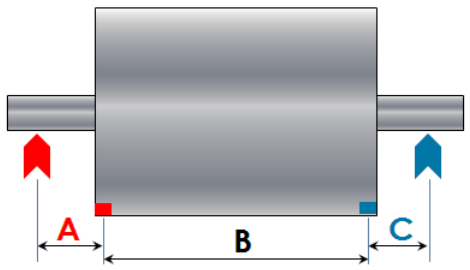
HARD BALANCING MACHINE

FOR ANY INDUSTRIAL APPLICATION NEEDS …

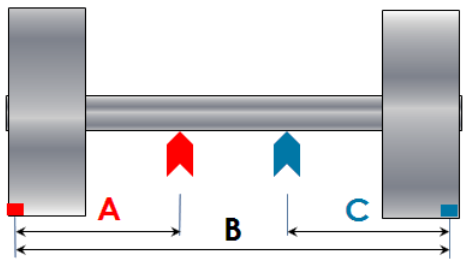
Meets the ISO 1940-1:2003 Quality Grade < G 2.5 residual imbalance and ISO 21940-11:2016-11 (E) Tolerances

ABSOLUTE ROTATION™

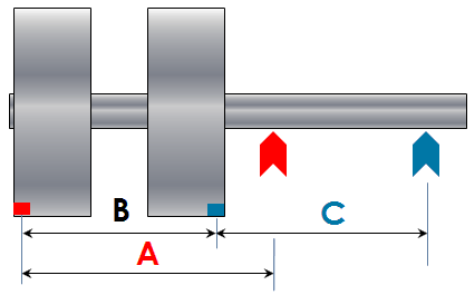
ROTOR SETUP OPTIONS



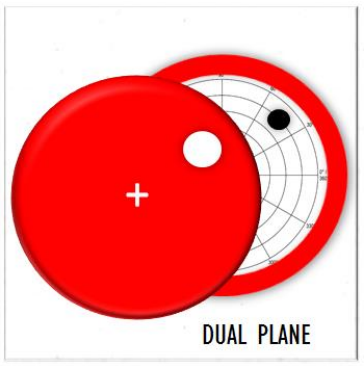
DUAL PLANE
CENTERHANG ROTOR

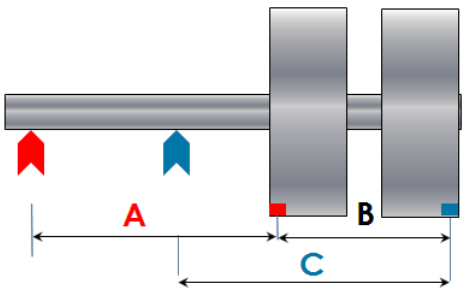


DUAL PLANE – BOTH OUTSIDE
OVERHANG ROTOR

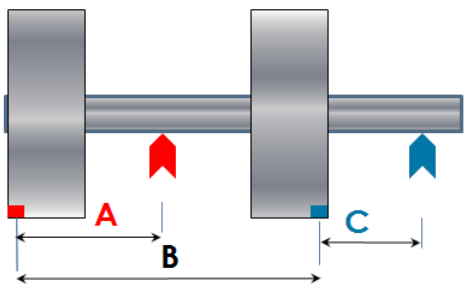


LEFT PLANE – DUAL PLANE
OVERHANG ROTOR

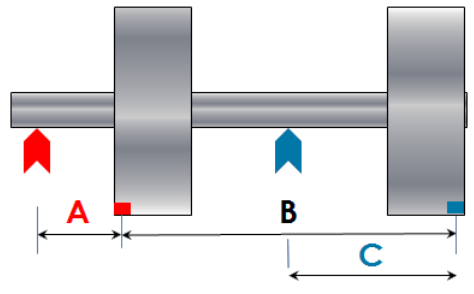




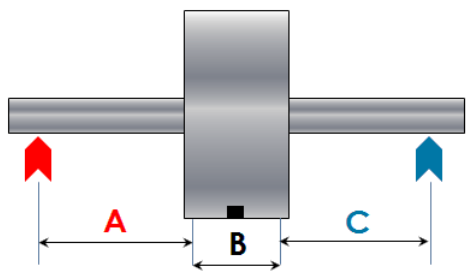
RIGHT PLANE – DUAL PLANE
OVERHANG ROTOR



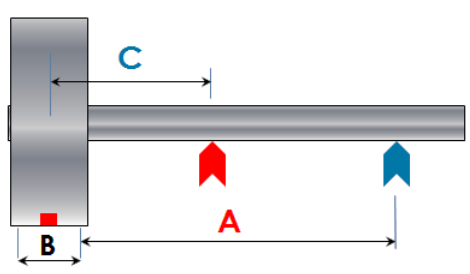
LEFT PLANE – OVERHANG
& CENTER MOUNTED ROTOR



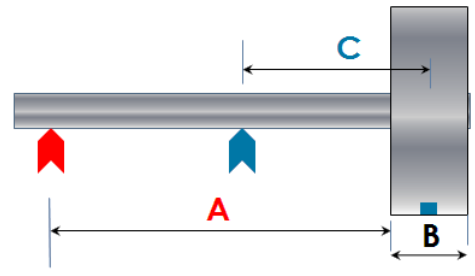
RIGHT PLANE – OVERHANG
& CENTER MOUNTED ROTOR



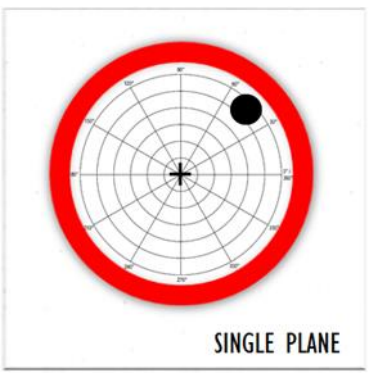
STATIC PLANE*
CENTERHANG NARROW ROTOR



LEFT PLANE – OVERHANG
MOUNTED ROTOR



RIGHT PLANE – OVERHANG
MOUNTED ROTOR



Rigid Rotor balancing machines with high repeatability system for any size, weight, or speed of the rotor.
Retrofitting / Upgrading of balancing machine with hassle free measuring instrumentation & software system

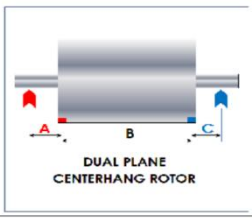
UNIQUE FEATURES

- *Comply to ISO 21940-21:2012 & ISO 2953 DESIGN Criteria.*
- *Force transducer to measure the imbalance centrifugal force*
- *Instrumented with Zero phase-error, high-order, digitally tuned filter*
- *Build in ISO 1940 /1 Quality Grade Tolerance Calculator*
- *Vector / Polar result display incl Larger Text display / Touch Screen*
- *Automated calibration to optimize need for several trial runs*
- *Various utility function - Static Couple Separation, Vector addition, Split, Digital Protractor with 0.01 degree, Archive of Job Log data with electronic documentation like pdf, word etc. No Ink Printer needed.*

ISO 1940 /1 Balance Quality Grade	ROTOR TYPES - General examples
G 6.3	*Fly-wheels, Fans, Aircraft gas turbine rotors* *Electrical armatures, Process plant machinery, Pump impellers*
G 2.5	*Machine-tool drives , Turbo compressors, Small electric armatures* *Turbine-driven pumps*
G 1.0	*Grinding machine drives, Textile bobbins, Automotive turbochargers*

RIGID ROTOR - DYNAMIC BALANCING REPORT

Name Of the Component	TEST ROTOR RE-CAL - 21 AUG 2017
Time and Date of Balancing	21-Aug-2017 11:35:36 AM
Type Of Balancing	Both correction plane inside support plane
Weight of the rotor	200 kg
Service Speed of the job	3600 RPM
Left Side Radius	215 mm
Right Side Radius	215 mm
Distance A	130 mm
Distance B	320 mm
Distance C	130 mm
ISO 1940/1 Balancing Grade	G 2.5
Balancing Speed	800 RPM
ISO 1940/1 Residual limit	1326.67 gram-mm



Measurement Summary

Particulars	LEFT SIDE PLANE	RIGHT SIDE PLANE
Initial Unbalance Weight	29.6 gram	30.35 gram
Initial Unbalance Angle	1.94°	358°
Final Unbalance Weight	0.74 gram	1.48 gram
Final Unbalance Angle	111.81°	276.84°
Allowable Tolerance	3.09 gram	3.09 gram
Weight Added/Removed	Remove	Remove
Unbalance Status	BALANCED	BALANCED
Name of the User	:	
Name of the Incharge	:	
Signature:		

ASK US FOR NEW BALANCING MACHINE INCL UPGRADING OF ANY OLD BALANCING MACHINE .... **solution@pro-aspect.com**

RoToR BALANCE

TECHNICAL SPECIFICATION

HORIZONTAL BALANCING MACHINE: (END DRIVEN MACHINE)

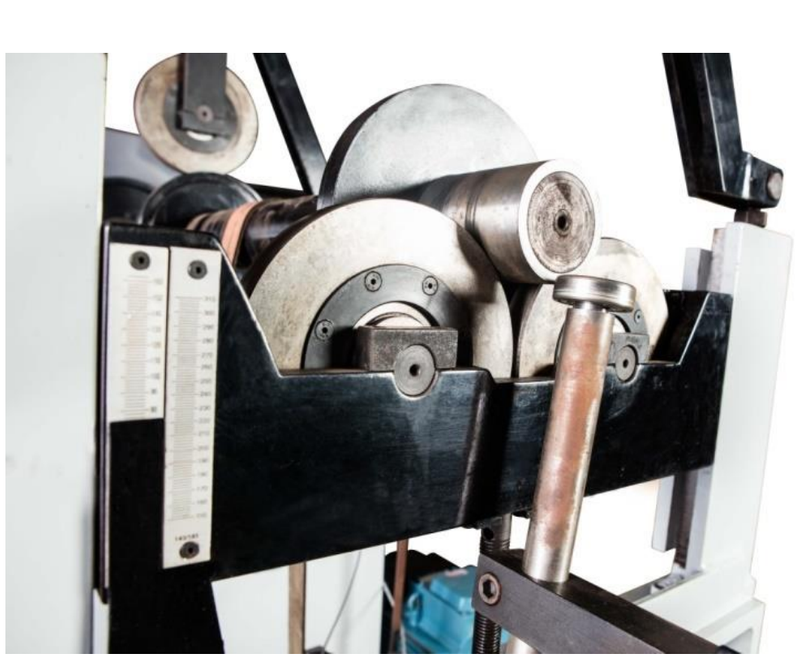
MACHINE MODEL	RHB1	RHB5	RHB10	RHB20	RHB50	RHB1C	RHB3C	RHB6C	RHB1K	RHB3K	RHB10K
NOMINAL WEIGHT CAPACITY IN KILOGRAMS	1	5	10	20	50	100	300	600	1 000	3 000	10 000
OVER LOAD CAPACITY IN KILIGRAMS	2	7,5	15	30	75	150	450	1 000	1 600	4 500	12 000
MAXIMUM DIAMETER OF ROTOR IN MM	100	150	200	250	400	800	1 200	1 400	1 600	2 000	3 600
BED SIZE IN MM	250	300	450	600	800	1 200	1 500	2 000	2 400	2 400	3 600
JOURNAL SIZE RANGE IN MM	2-15	3-20	5-25	8-40	9-50	10-60	12-100	15-140	20-160	25-180	40-250

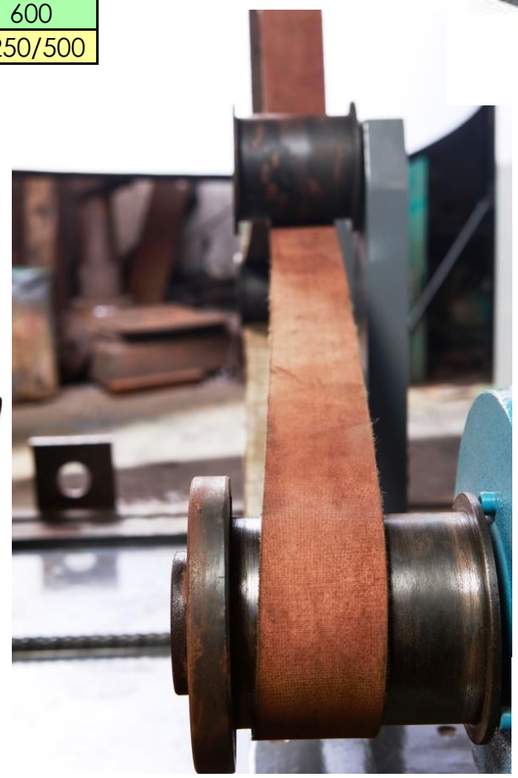
HORIZONTAL BALANCING MACHINE: (BELT DRIVEN MACHINE)

MACHINE MODEL	RHE20	RHE50	RHE1C	RHE3C	RHE6C	RHE1K	RHE3K	RHE6K	RHE10K	RHE16K	RHE30K	RHE65K
NOMINAL WEIGHT CAPACITY IN KILOGRAMS	20	50	100	300	650	1 000	3 000	6 000	10 000	16 000	30 000	65 000
OVER LOAD CAPACITY IN KILOGRAMS	30	75	150	450	1 000	1 600	4 200	8 000	14 000	20 000	45 000	90 000
MAXIMUM DIAMETER OF ROTOR IN MM	5 00	7 00	9 00	1 150	1 350	1 500	2 100	2 500	3 000	3 500	4 000	5 000
BED SIZE IN MM	350	600	750	1 000	1500	2 000	2 400	3 600	4 800	6 000	8 000	10 000
JOURNAL SIZE RANGE IN MM	6-40	8-60	10-80	12-100	15-120	20-145	25-180	40-250	50-300	60-400	70-500	80-600

VERTICAL BALANCING MACHINE:

MACHINE MODEL	RVS1	RVS3	RVS10	RVS30	RVS50	RVS1C	RVS3C	RVS6C	RVS1K
NOMINAL WEIGHT CAPACITY IN KILOGRAMS	1	5	10	20	50	100	300	600	1 000
OVER LOAD CAPACITY IN KILIGRAMS	2	7,5	15	30	75	150	450	1 000	1 600
MAXIMUM DIAMETER OF ROTOR IN MM	200	250	300	400	450	550	800	1 200	1 600
NORMAL BALANCING SPEED	1200	1200	900	900	600	600	350/700	300/600	250/500





AC Variable Frequency Drive system are integrated for both ***End and Belt Drive system***

ABSOLUTE ROTATION™